A G E N D A

General Plan/LCP Implementation Committee
January 30, 2008
3:30 p.m.
City Council Chambers

1. Approve Action Minutes from November 7, 2007 Meeting 3:30-3:35

   Attachment No. 1

2. General Plan/LCP Implementation - Master Task List

   Update From Staff and Committee Comments
   Attachment No. 2 3:35-3:50

3. Zoning Code Rewrite – Project Schedule

   Review schedule change and provide direction to staff
   Attachment No. 3 3:50-4:05

4. Traffic Signal Synchronization

   Review information provided by staff
   Attachment No. 4 4:05-4:45

5. Items for Future Agenda 4:45- 4:50

6. Public Comments on non-agenda items 4:50-5:00

Attachment 1

CITY OF NEWPORT BEACH GENERAL PLAN/LCP IMPLEMENTAION COMMITTEE

DRAFT ACTION MINUTES

Action Minutes of the General Plan/LCP Implementation Committee held at the City Council Chambers, City of Newport Beach, on **Wednesday, November 7, 2007**

Members Present:

X	Ed Selich, Mayor Pro Tem, Chairman
E	Steve Rosansky, Mayor
X	Leslie Daigle, Council Member
X	Barry Eaton, Planning Commissioner
X	Robert Hawkins, Planning Commissioner
X	Michael Toerge, Planning Commissioner

Advisory Group Members Present:

	Mark Cross
X	Larry Frapwell
	William Guidero
	Ian Harrison
X	Brion Jeannette
X	Don Krotee
X	Todd Schooler
	Kevin Weeda
	Dennis Wood

Staff Representatives:

X	Sharon Wood, Assistant City Manager
X	David Lepo, Planning Director
	Robin Clauson, City Attorney
X	James Campbell, Senior Planner
	Gregg Ramirez, Senior Planner

E = Excused Absence

Committee Actions

1. **Agenda Item No. 1** – Approval of minutes

   Action: Committee approved the draft minutes.

   Vote: Consensus

2. **Agenda Item No. 2 -** General Plan/LCP Implementation - Master Task List

   Action: The Committee was provided an update on the status of several items on the master task list.

   Vote: none

3. **Agenda Item No. 3 -** Zoning Code Rewrite – Alley Encroachments

   Action: After a discussion of residential alley encroachments into the required setbacks was conducted, the Committee directed staff to work with the technical advisory committee, Public Works and General Services to identify new regulations that improve alley circulation of without significantly changing permitted encroachment regulations.

   Vote: Consensus

4. **Agenda Item No. 4 -** Residential Parking – Spaces based on number of rooms or size?

   Action: The Committee directed staff to study the issue further

   Vote: Consensus

5. **Agenda Item No. 5 -** Housing Element Update

   Action: The Committee was provided an update on the status of updating the Housing Element.

   Vote: none

Attachment 2

GENERAL PLAN IMPLEMENTATION TASKS

1. Interim Zoning Resolution (including ability to require development agreements)
   Staff, January 9, 2007 - **Complete**

2. Procedures to implement single- and two-family design policies
   Staff, March 27, 2007 - **Complete**

3. Zoning Code and Specific Plan rewrite
   Consultant, with staff input and review, July 2008

4. CLUP amendment
   Staff, Consultants
   - *Planning Commission recommendation on clarification of policies re: coastal bluff development, October 18, 2007*
   - *City Council re-approval to correct notice will include clarification of policies re: coastal bluff development, November 13, 2007*
   - *City Council approval of contract with advocacy firm (D.B. Neish, Inc.), November 13, 2007*
   - *Coastal Commission found application complete December 4, 2007*

5. Housing Element certification by HCD
   EIP and staff, TBD
   - *Comments on re-submittal received from HCD September 10 ,2007*
   - *Revised RHNA approved by SCAG July 12, 2007*
   - *City Council approval of contract with EIP for required update and certification, December 18, 2007*

6. Park Dedication Fee (Quimby Act)
   Staff, April 10, 2007- ***Complete***

7. ED Strategic Plan
   Staff, ADE and EDC, July 10, 2007 - **Complete**

8. Fair Share Fee update
   Consultants, TBD
   - *Staff approval of contract for nexus study (Revenue & Cost Specialists, LLC), October 31, 2007*
   - *Nexus study first draft reviewed January 16,2008*
   - *Nexus study completion February 2008*

9. Airport Area infrastructure study and fee(s)
   ROMA and Fair Share Consultant, TBD
   - *First draft submitted for staff review January 23, 2008*

10. Inclusionary Housing Ordinance and In-lieu fee
Consultant
    - *Affordable Housing Task Force review of updated fee study, November 13, 2007*
    - *Committee review of fee study and draft ordinance, TBD*

11. Parking Requirements and Management
Staff, EDC,
    - *RFP Issued October 12, 2007*
    - *No proposals received; ED staff contacted additional firms and extended deadline to January 31, 2008.*

12. LCP Implementation Plan
Staff, concurrent with/trailing Zoning Code rewrite

13. City Council Ordinance on development agreements
Staff, February 27, 2007 – **Complete**
    - *North Newport Center DA adopted December 18, 2007*

14. Traffic signal synchronization
Consultant and Public Works staff, master plan January 2008

15. PC rewrite/revisions
Property owners for major ones, their schedule
    - *North Newport Center PC adopted December 18, 2007*

Staff or consultant for smaller ones, with Zoning rewrite or second phase, TBD

16. Banning Ranch Pre-Annexation and Development Agreement
City Council, staff and property owners, TBD

17. Harbor Area Management Plan
Consultants, staff and Harbor Commission, September 2008

18. Run-off and Pollution Reduction Plan
Coastal/Bay Water Quality Committee and staff, ongoing

19. Database refinements and maintenance
Staff, refinements TBD, maintenance ongoing

20. Fiscal Impact Model training
ADE and staff, March 29, 2007- **Complete**

21. Traffic Phasing Ordinance revision re: NBTAM
Staff, July 24, 2007- **Complete**

22. Measure S Guidelines revision re: variable FAR
Staff, TBD

Lower Priority

- Municipal Code amendments re: property maintenance standards
- Building Code amendments re: green buildings
EQAC Energy Subcommittee
- Amend City Council Policies on historic, archaeo and paleo resources
- Funding and priority program for construction of noise barriers along arterials

Attachment 3

CITY OF NEWPORT BEACH

MEMORANDUM

TO: General Plan/LCP Implementation Committee

FROM: Gregg Ramirez, Senior Planner

DATE: January 25, 2008

RE: Zoning Code – Project Schedule

Staff and the consultants continue to work on the code re-write. At this point staff is nearing completion of the review of the draft code provided by the consultants. The draft addresses most of the 32 items list, and some others. The schedule differs from the last in that it includes a second administrative draft for the review by senior staff. This revised schedule tentatively has the Committee/public review draft scheduled to be available on May 2, 2008. Committee meetings on the draft would commence the following week on May 7, 2008. At this point staff believes these dates represent a good approximation of a project timeline but the complexity of many portions of the project such as the new mixed-use zones, possible elimination of some of the Specific Plans, new regulations required for the LCP Implementation Plan and setback map may necessitate further adjustments at a later date. Staff will keep the committee apprised of the progress at the regularly scheduled meetings.

REVISED ZONING CODE SCHEDULE
January 30, 2008

Staff completes first review of first draft of Code and IP, and transmits comments to consultants	February 1, 2008
Staff work with TAC Consultants complete second draft	March 14, 2008
Key staff (Clauson, Wood, Lepo, Ramirez, Campbell) complete review of second draft, and transmit comments to consultants	April 11, 2008
Public Review Draft distributed to Committee and Public	May 2, 2008
Committee Review	May 7-28, 2008
Consultants complete PC Draft	June 27, 2008
Planning Commission hearings begin	July 17, 2008

Attachment 4

DATE: January 25, 2008

TO: General Plan/LCP Implementation Committee

FROM: Antony Brine, City Traffic Engineer

SUBJECT: TRAFFIC SIGNAL COMMUNICATION MASTER PLAN

The Master Plan covers the long-term strategy for traffic signal communication and infrastructure improvements.

There will be eight (8) phased projects associated with the completion of the citywide traffic signal modernization project. New traffic signal control equipment will be installed at all of the existing 112 signalized intersections in the city. We are currently working on the first phase of the project, which includes the installation of new signal controllers at 22 intersections along Coast Highway in Corona del Mar, on MacArthur Boulevard, and on Avocado Avenue. The Phase 1 project also includes two new video cameras, installation of new fiber communication lines, and the installation of a pedestrian traffic signal on Coast Highway at Iris Avenue.

The existing traffic signal equipment was installed in the 1980's. This equipment is outdated, and maintenance of this equipment is becoming cost prohibitive. There are currently different traffic signal controller types (or models) used within the city. When the city took over Coast Highway and MacArthur Boulevard from the State, we inherited different types of control equipment. The different types of equipment do not "communicate" with each other. When all of these projects are complete, every signal in the city will have new equipment of the same type. This will improve the coordination, and the operation of the traffic signals.

A copy of the Executive Summary of the Traffic Signal Communication Master Plan is attached for your review.

EXECUTIVE SUMMARY

The City of Newport Beach initiated the Traffic Signal Communication Master Plan and Phase I PS&E project that in part involved the development of the Traffic Signal Communications Master Plan. The focus of the Traffic Signal Communications Master Plan was to develop a Master Plan that meets the following goals:

1. Details a long-term communication and Intelligent Transportation Systems (ITS) deployment strategy
2. Inventories the existing communication and transportation infrastructure to maximize the use of existing resources when deploying future communication, traffic signal and ITS deployments to maximize funding
3. Improves public safety and incident response times
4. Coordinates with City of Newport Beach Information Technology (IT) to address communication hardware needs and requirements of the City's WAN
5. Provides the City with the tools to more efficiently and effectively manage the existing transportation network
6. Provides communications operations and maintenance cost estimates
7. Develops detailed deployment cost estimates for the phased deployment of communications and ITS strategies
8. Employs Systems Engineering Best Practices
9. Addresses requirement for Ethernet-based communications to support the traffic signal system consisting of *icons*® central software and ASC/3 traffic signal controllers (NEMA and 2070 based formats)
10. Details a transition plan from the VMS system to the *icons*® system for each phase of the deployment
11. Supports the transmission of IP video and data from CCTV cameras
12. Addresses possible systems integration to support multi-jurisdictional coordination with additional City departments including IT
13. Comply with and become part of the Regional ITS Architecture
14. Develop City standards for communication and ITS deployments
15. Address communication requirements for possible relocation of Newport Beach TMC, if applicable

Three technical memorandums were completed to support the development of the Master Plan. The first summarized the City's existing signal system and communications infrastructure. The second highlighted the various alternatives that the City could choose to support future signal system and communications expansion. The third provided specific recommendations for the City to support the signal system and communication expansion goals and a deployment strategy. Comments received on each of the three technical memorandums were used to develop the City of Newport Beach's Traffic Signal Communications Master Plan.

The Master Plan is comprised of the following sections:

Section 1: Introductions: This section introduces the Traffic Signal Communication Master Plan and Phase I PS&E project and the details of the Master Plan document.

Section 2: Existing Conditions: This section summarized the City's existing traffic signals and operations systems. The section is divided into four main sections covering the existing streets and highway network, traffic management system, communication system, and operations maintenance.

Section 3: Stakeholder Identification & Coordination: This section discusses the major stakeholders and partnering agencies for the Traffic Signal Communication Master Plan and Phase I PS&E project. The partnering agencies are included in this report for future coordination between agencies, for signal timing coordination, data sharing (i.e. CCTV feeds), or future phase projects.

Section 4: ITS Strategies: This section discusses the numerous ITS strategies available to the City to aid in improving transportation management in Newport Beach. This section covers a wide array of ITS strategies to aid City staff in becoming more familiar with ITS. Note that it is likely only some, not all, of the ITS strategies presented will be applicable to Newport Beach.

Section 5: Needs Assessment & Solutions: This section discusses the specific needs of the City based on the ITS deployment strategies. Based on the goals identified for the project, this section determines the communication needs for the communications infrastructure, transportation system management, traffic operations, ITS planning and institutional opportunities, and level of service goals for traffic.

Section 6: Communications Analysis: This section discusses the communication needs for the City based on existing conditions and the needs assessment and solutions presented in the previous section. Based on the goals identified for the project, this section assesses the various communication alternatives and recommendations.

Section 7: Deployment Strategies: This section provides a summary of the project phases, including the phase limits and the number of intersections per phase. The section also provides details for each phase including a list of intersections, limits of work, communication upgrades, and devices to deploy.

Section 8: Project Costs: This section presents the cost estimates for each phase detailed in **Section 7**.

Section 9: Traffic Management Center: This section presents various layouts that the City can use as a guide for the future City Hall.

Section 10: Gigabit Ethernet Backbone Communications: This section presents a preliminary Gigabit Ethernet backbone network that could be implemented to provide a high-bandwidth, redundant communications system for Newport Beach.

Section 11: Next Steps: This section presents a summary of this report and the subsequent activities to finalize the Master Plan.

Deployment Strategy

The Master Plan provides an approach to deploy Ethernet-based communications, new traffic signal controllers, and CCTV cameras by phase. For each phase, the Master Plan provides the project limits, listing of signalized intersections, quantities of equipment (controllers, Ethernet hardware, CCTV cameras), communication media (fiber, twisted pair, wireless), and infrastructure (conduit, pull boxes) to install. Each phase also includes an itemized cost estimate inclusive of design, construction, integration and signal timing costs, plus a escalation factor corresponding to the number of years before a specific phase will be implemented. Upon full deployment of the phases detailed in the Master Plan, all of the City's existing and future signals, identified during the preparation of the Master Plan, will be supported by the City's Ethernet-based communications system.

Gigabit Ethernet Communications System

The Master Plan details the deployment of an Ethernet-based communication system between the signalized intersections (field elements) and the City-facilities listed below.

1. Central Library near Avocado Ave and Corporate Plaza Drive
2. NCCC near San Joaquin Hills Road and Newport Coast Drive
3. Police Department near Jamboree and Santa Barbara
4. Fire Station 7 near Irvine Avenue and University Drive
5. Fire Station 6 near Irvine Avenue and Westcliff Drive
6. General Services near Superior Avenue and 16th Street
7. City hall near Newport Blvd. and 32nd Street

At each City-facility listed above, a high-bandwidth communication link will be implemented by Newport Beach IT Department to the City Hall. At the time this report was written, the COX Business Services agreement with the City established the following services for the City.

- A DS3 (T3) communication link between City Hall and the Central Library offering 44 MB of bandwidth.
- Additional services to be provided with the agreement include a 10/1.7 Ethernet line service (ELS) from the Police Department to City Hall. These communication links are envisioned to replace the existing T1 connections.

The deployment of an Ethernet-based system supported by a DS3 leased line will provide the City with a viable network and substantially more bandwidth that was offered by the T1 leased lines, especially in the short term in support of the Phase 1 and Phase 2 projects. But it does not provide much growth potential and limits traffic bandwidth availability over the long term as the City expands into Phase 3 and beyond.

The Master Plan provides a long-term vision to deploy a Gigabit Ethernet communications system to address the long-term needs for both Traffic and IT departments of Newport Beach. The proposed Gigabit Ethernet network configuration could include both primary and secondary Gigabit Ethernet microwave communication links. These links would provide redundant communications between the Gigabit Ethernet fiber backbone and City Hall, via two field connections to the fiber backbone. For the purposes of this discussion, the field Gigabit Ethernet microwave links would be located at Central Library and Fire Station 7. The two

wireless network paths, along with the deployment of fiber optic cable between the Central Library and Fire Station 7, represents a redundant configuration of the fiber backbone to achieve a 1 Gigabit wireless backbone to City Hall.

Master Plan

The City's existing traffic signal central system, the VMS-330, supports nearly half of the City's signalized intersections. The remaining intersections communicate at the local level through field masters. With the Traffic Signal Communications Master Plan and Phase I PS&E project, Citywide upgrades of the existing traffic signal central system and the traffic signal controllers have been initiated. This includes the following:

- Replacement of the existing VMS-330 system with an *icons*® system, by Econolite
- Replacement of the existing traffic signal controllers with new controllers compatible with *icons*®
- Deployment of new Ethernet-based communications
- Deployment of video surveillance system to monitor traffic operations
- Deployment of a temporary TMC at the existing City Hall and possible layouts for an upgraded TMC at the new City Hall

Citywide improvements have been broken down into eight phases. Intersections were grouped based on geographic locations and intersection similarities. Phases were prioritized based on volumes and incident frequency rates provided by the City and discussed in the previous sections. The limits of work and various improvements per phase are detailed in the subsequent subsections.

Projects corresponding with each phase may include communications upgrades, traffic signal controllers upgrades, CCTV cameras and other ITS device deployments. Other proposed improvements may include the installation of GPS clocks for synchronization purposes or the retention of the phone drops at isolated locations, if no other cost-effective means of communications can be achieved. The proposed project phases and associated limits are summarized below. The range of costs is based on the option to deploy a combination of primary CCTV camera locations and optional secondary CCTV camera locations.

PHASE 1: *21 intersections at cost of $587,000 (excludes cost of icons® and TMC)*

- Coast Hwy from Jamboree Rd to Newport Coast Dr
- Avocado Ave/ San Miguel Dr/ MacArthur Blvd from Coast Hwy to San Joaquin Hills Rd
- San Joaquin Hills Rd from MacArthur Blvd to San Miguel Dr

PHASE 2: *14 intersections at cost of $435,404 to $480,745*

- Jamboree Rd from Coast Hwy to MacArthur Blvd
- Bison Ave from Jamboree Rd to MacArthur Blvd

PHASE 3: *20 intersections at cost of $696,554 to $711,554*

- MacArthur Blvd from Jamboree Rd to Campus Dr
- Irvine Ave/ Campus Dr from Santa Isabel Ave to MacArthur Blvd
- Mesa Dr/ Birch St from Irvine Ave to Von Karman Ave
- Bristol St North
- Bristol St South
- Bayview Pl / Bayview Cir

PHASE 4: *13 intersections at cost of $594,854 to $639,854*

- Superior Ave from Coast Hwy to Industrial Way
- Placentia Ave from Hospital Rd to 15th St
- Irvine Ave from 17th St / Westcliff Dr to Santiago Dr
- Dover Dr from Cliff Dr to Westcliff Dr

PHASE 5: *14 intersections at cost of $378,194 to $438,194*

- Newport Center Dr from Coast Hwy to Newport Center Dr East/West
- Newport Center Dr East from Newport Center Dr to Newport Center Dr West
- Newport Center Dr West from Newport Center Dr to Newport Center Dr East
- Santa Barbara Dr from Jamboree Rd to Newport Center Dr West
- San Clemente Dr from San Joaquin Hills Rd to Newport Center Dr West
- San Joaquin Hills Rd from Jamboree Rd to MacArthur Blvd
- San Joaquin Hills Rd from San Miguel Dr to Spyglass Hill Rd

PHASE 6: *13 intersections at cost of $637,266 to $682,266*

- San Joaquin Hills Rd from Spyglass Hill Rd to Newport Coast Dr
- Newport Coast Dr from Sage Hill School to Coast Hwy
- Ridge Park Rd from San Joaquin Hills Rd to Newport Coast Dr
- Pelican Hill Rd South from Resort Entrance to Newport Coast Dr

PHASE 7: *10 intersections at cost of $237,741 to $297,741*

- Balboa Blvd from Coast Hwy to Newport Blvd
- Newport Blvd from Finley Ave to Main St

PHASE 8: *10 intersections at cost of $803,257 to $833,257*

- University Dr at La Vida – Baypoint Dr
- Ford Rd/ Bonita Canyon Dr from Jamboree Rd to Chambord
- San Miguel Dr from San Joaquin Hills Rd to Ford Rd
- Jamboree Rd/ Marine Ave at Bayside Dr

Future Newport Beach TMC

The Master Plan also provides a discussion on the needs for the planned Newport Beach Traffic Management Center once the new Newport Beach City Hall is constructed. The details of the new TMC are general and aim to provide the City with general criteria for the size and layout of the TMC based on the City's anticipated needs. Once more information is provided as to the area in the new City Hall allocated for the TMC, a specific floor plan can be developed.